

## ARQ SYSTEM

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Inventor(s): IWAMORI TAKUO, FUJIWARA TOSHIYUKI +

Applicant(s): JAPAN RADIO CO LTD, BOEICHO GIUTSU KENKYU HONBUCH +

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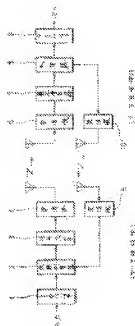
- European: H04L1/00B5L; H04L1/16F

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## Abstract of JP 60041832 (A)

**PURPOSE:** To attain retransmission request in block unit or bit unit by applying decoding of data by means of the maximum likelihood method at the data reception side and utilizing a likelihood function or a likelihood function difference calculated in the decoding as the decision of the retransmission request. **CONSTITUTION:** A signal transmitted from a data transmitter 4 is received by a receiver 6 and given to a maximum likelihood decoder 7 of the next stage at the reception side. The maximum likelihood decoder 7 operates the likelihood function based on a prescribed formula, compares the level and outputs the largest likelihood function among the likelihood functions and a data corresponding thereto to a deciding device 8. The device 8 compares the likelihood function outputted from the maximum likelihood decoder 7 with a predetermined deciding level. When the inputted likelihood function is larger than the deciding level in this case, the inputted data is stored in a prescribe address of a data buffer 9, and when the inputted data is smaller than the deciding level, the address of the inputted data is transmitted to the data transmission side via a transmitter 10 as a retransmission request signal.

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